

# BACHELOR OF SCIENCE - INFORMATION SYSTEMS

## UNIVERSITY CORE (44 CREDITS)

### Foundation Requirements (22 – 31 Credits)

	<b>Credits</b>
ENG 110 (Can test out)	0 – 3 _____
ENG 120 Critical Writing	4 _____
ENG 201 Writing in the Disciplines	3 _____
COM 200 Public Speaking	3 _____
MAT 111 Elementary Calculus	4 _____
Approved Lab Foundation Science	3 – 4 _____
CIS 101 Introduction to Computing	3 _____
Two language courses selected from: ARA/CHI/FRE/JPN/GRK/ITA/LAT/RUS/SPA/SPE	0 – 3 _____
_____	0 – 3 _____

### Areas of Knowledge (AOK) (24 – 25 Credits)

Western Heritage (AOK 2) (2 Courses)	3 _____
_____	3 _____
World Traditions & Cultures (AOK 3) (2 Courses)	3 _____
_____	3 _____
Humanistic & Creative Expressions (AOK 4) (2 Courses)	3 _____
_____	3 _____
Analysis of Human, Social & Natural Phenomena (AOK 5) (2 Courses)	4 _____
MAT 234 Introduction to Probability & Statistics	4 _____
ECO 106 Principles of Microeconomics	3 _____

### REQUIRED LEARNING EXPERIENCES

#### Civic Engagement and Public Values

One Civic Engagement (CE) course

#### Learning Community Requirement

One Learning Community (LC) course

#### Writing Enhanced Course Requirement

Two Writing Enhanced (W) courses

1. \_\_\_\_\_
2. \_\_\_\_\_

## INFORMATION SYSTEMS CORE (32 CREDITS)

	<b>Credits</b>
CIT 211 Introduction to Computer Systems	4 _____
CIT 221 Global Network Technology	4 _____
CIT 241 Database Management	4 _____
CIT 312 Introduction to Programming I	4 _____
CIT 314 Introduction to Programming II	4 _____
CIT 322 Distributed Computing	4 _____
CIT 342 Systems Analysis and Design	4 _____
CIT 471/481 Internship/Capstone	4 _____

### ADVANCED ELECTIVES IN CIT (11-12 CREDITS)

CIT _____	4 _____
CIT _____	4 _____
CIT _____	3 – 4 _____

### MATHEMATICS COURSES (4 CREDITS)

CS 113/MAT 137*** Math Structures for Computer Science	4 _____
MAT 111 Elementary Calculus	3 >><<
MAT 234 Introduction to Probability and Statistical Analysis	4 >><<

### INFORMATION SYSTEMS ENVIRONMENT (17 CREDITS)

ACC 203 Financial Accounting	4 _____
ACC 204 Managerial Accounting	4 _____
MGT 150 Managerial and Organizational Concepts	3 _____
MAR 201 Principles of Marketing	3 _____
ECO 105 Principles of Macroeconomics	3 _____

### OPEN ELECTIVES (2 – 12 CREDITS)\*

UNV 101 _____	1 _____
_____	3 _____
_____	3 _____
_____	3 _____
_____	3 _____
_____	3 _____

**Total Credits =120**

\*NOTE: ENG 105 C & D, MAT 100 and MAT 103 cannot be used toward the 120 credits for graduation.

UNV 101 Freshman Seminar is REQUIRED for all new Freshman.

Entering freshman are required to take one Civic Engagement course, one Learning Community and two Writing Enhanced Courses.

\*\*Students must earn a grade of C or better in each prerequisite core course in order to take subsequent CIT courses.

\*\*\*MAT 137 is not offered in NYC, CS 113 is a substitution in NYC only.

>><< Course is taken as part of the University Core Requirements.

**ID Number** \_\_\_\_\_  
**Name** \_\_\_\_\_  
**Advisor** \_\_\_\_\_

**BACHELOR OF SCIENCE INFORMATION SYSTEMS  
NYC COURSE SEQUENCE**

**FIRST YEAR**

FALL SEMESTER		SPRING SEMESTER	
UNV 101	1	CIT 211 Introduction to Computer Systems	4
CIS 101 Introduction to Computing	3	CS 113 Math Structures for Computer Science	4
MAT 103* Algebra	3	ENG 120 Critical Writing	4
ENG 110 Composition or ENG 120 Critical Writing*	3	ECO 105 Principles of Economics: Macroeconomics	3
Learning Community	6		
	<b>16 credits</b>		<b>15 credits</b>

**SECOND YEAR**

FALL SEMESTER		SPRING SEMESTER	
CIT 312 Introduction to Programming I	4	CIT 221 Global Network Technology	4
CIT 241 Database Management	4	ECO 106 Principles of Economics: Microeconomics	3
ACC 203 Financial Accounting	4	ACC 204 Managerial Accounting	4
Civic Engagement	3	CIT 314 Introduction to Programming II	4
		ENG 201 Writing in the Disciplines	3
	<b>15 credits</b>		<b>18 credits</b>

**THIRD YEAR**

FALL SEMESTER		SPRING SEMESTER	
MAT 111 Elementary Calculus	3	CIT 322 Distributed Computing	4
Second Language*	3	Second Language	3
Lab Science (ENV 222/CHE/PHY/BIO)	3 – 4	MAT 234 Introduction to Probability and Statistics	4
CIT Advanced Elective	4	MAR 201 Principles of Marketing	3
MGT 150 Managerial and Organizational Concepts	3	AOK 2, AOK 3, AOK 4 or AOK 5	3
	<b>16 – 17 credits</b>		<b>17 credits</b>

**FOURTH YEAR**

FALL SEMESTER		SPRING SEMESTER	
AOK 2, AOK 3, AOK 4 or AOK 5	3	CIT 342 Systems Analysis and Design	4
AOK 2, AOK 3, AOK 4 or AOK 5	3	CIT Advanced Elective	3 – 4
CIT Advanced Elective	4	CIT 471 Internship or CIT 481 Capstone	4
COM 200 Public Speaking	3	AOK 2, AOK 3, AOK 4 or AOK 5	3
	<b>13 credits</b>		<b>14 – 15 credits</b>

\*Course level is based on the results of the placement exam

**BACHELOR OF SCIENCE INFORMATION SYSTEMS  
PLV COURSE SEQUENCE**

**FIRST YEAR**

FALL SEMESTER		SPRING SEMESTER	
UNV 101	1	CIT 211 Introduction to Computer Systems	4
CIS 101 Introduction to Computing	3	CS 113 Math Structures for Computer Science	4
MAT 103* Algebra	3	ENG 120 Critical Writing	4
ENG 110 Composition or ENG 120 Critical Writing*	3	ECO 105 Principles of Economics: Macroeconomics	3
Learning Community	6	AOK 2, AOK 3, AOK 4 or AOK 5	3
<b>16 credits</b>		<b>18 credits</b>	

**SECOND YEAR**

FALL SEMESTER		SPRING SEMESTER	
CIT 312 Introduction to Programming I	4	CIT 221 Global Network Technology	4
CIT 241 Database Management	4	ECO 106 Principles of Economics: Microeconomics	3
ACC 203 Financial Accounting	4	ACC 204 Managerial Accounting	4
Civic Engagement	3	CIT 314 Introduction to Programming II	4
COM 200 Public Speaking	3	ENG 201 Writing in the Disciplines	3
<b>18 credits</b>		<b>18 credits</b>	

**THIRD YEAR**

FALL SEMESTER		SPRING SEMESTER	
MAT 111 Elementary Calculus	3	CIT 322 Distributed Computing	4
Second Language*	3	Second Language	3
Lab Science (ENV 222/CHE/PHY/BIO)	3 – 4	MAT 234 Introduction to Probability and Statistics	4
CIT Advanced Elective	4	MAR 201 Principles of Marketing	3
MGT 150 Managerial and Organizational Concepts	3	AOK 2, AOK 3, AOK 4 or AOK 5	3
<b>16 – 17 credits</b>		<b>17 credits</b>	

**FOURTH YEAR**

FALL SEMESTER		SPRING SEMESTER	
AOK 2, AOK 3, AOK 4 or AOK 5	3	CIT 342 Systems Analysis and Design	4
AOK 2, AOK 3, AOK 4 or AOK 5	3	CIT Advanced Elective	3 – 4
CIT Advanced Elective	4	CIT 471 Internship or CIT 481 Capstone	4
Elective	3	AOK 2, AOK 3, AOK 4 or AOK 5	3
Elective	3	Elective	3
<b>16 credits</b>		<b>17 – 18 credits</b>	

\*Course level is based on the results of the placement exam

# BACHELOR OF SCIENCE - INFORMATION SYSTEMS

## Transfer Student

### UNIVERSITY CORE (44 CREDITS)

#### Foundation Requirements (22 – 31 Credits)

	Credits	
ENG 110 (Can test out)	0 – 3	_____
ENG 120 Critical Writing	4	_____
ENG 201 Writing in the Disciplines	3	_____
COM 200 Public Speaking	3	_____
MAT 111 Elementary Calculus	4	_____
Approved Lab Foundation Science	3 – 4	_____
CIS 101 Introduction to Computing	3	_____

One language or culture course selected from:  
ARA/CHI/FRE/JPN/GRK/ITA/LAT/RUS/SPA/SPE

0 – 3 \_\_\_\_\_

#### Liberal Arts Requirement (26 Credits)

ECO 105 Principles of Macroeconomics	3	_____
ECO 106 Principles of Microeconomics	3	_____
CS 113/MAT 137*** Math Structures	4	_____
MAT 234 Introduction to Probability & Statistics	4	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____

### REQUIRED LEARNING EXPERIENCES

#### Civic Engagement and Public Values

One Civic Engagement (CE) course

\_\_\_\_\_

### INFORMATION SYSTEMS CORE (32 CREDITS)

	Credits	
CIT 211 Introduction to Computer Systems	4	_____
CIT 221 Global Network Technology	4	_____
CIT 241 Database Management	4	_____
CIT 312 Introduction to Programming I	4	_____
CIT 314 Introduction to Programming II	4	_____
CIT 322 Distributed Computing	4	_____
CIT 342 Systems Analysis and Design	4	_____
CIT 471/481 Internship/Capstone	4	_____

### ADVANCED ELECTIVES IN CIT (11-12 CREDITS)

CIT	4	_____
CIT	4	_____
CIT	3 – 4	_____

### MATHEMATICS COURSES (4 CREDITS)

CS 113/MAT 137*** Math Structures for Computer Science	4	>><< _____
MAT 111 Elementary Calculus	3	>><< _____
MAT 234 Introduction to Probability and Statistical Analysis	4	>><< _____

### INFORMATION SYSTEMS ENVIRONMENT (17 CREDITS)

ACC 203 Financial Accounting	4	_____
ACC 204 Managerial Accounting	4	_____
MGT 150 Managerial and Organizational Concepts	3	_____
MAR 201 Principles of Marketing	3	_____
ECO 105 Principles of Macroeconomics	3	_____

### OPEN ELECTIVES (2 – 12 CREDITS)\*

UNV 101	1	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____
_____	3	_____

**Total Credits =120**

\*NOTE: ENG 105 C & D, MAT 100 and MAT 103 cannot be used toward the 120 credits for graduation.

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